

Materion Advanced Materials Selected for NASA Telescope Mirror Prototype
Company Partners with Outpost Technologies to Enable Space Exploration

Materion Corporation (NYSE: MTRN) will provide one of its newer high-performance products, AyontEX™ alloy, for a National Aeronautics and Space Administration (NASA) funded telescope mirror prototype. This 1.25-meter mirror will be tested at NASA Marshall Space Flight Center’s X-ray Cryogenic Test Facility to evaluate performance in space environments. Led by Outpost Technologies, a space and defense solutions company, the team aims to produce low-cost, large diameter cryogenic mirror products under a NASA Astrophysics Research and Analysis grant award.

AyontEX alloy is integral to the optimized optical, thermal, structural, and dynamic mirror performance characteristics. Further, the team will optimize design and manufacturing processes to shorten lead times and reduce costs for terrestrial and space optical programs.

“We’re pleased to collaborate with Outpost Technologies to develop a lightweight solution that aims to advance NASA’s telescope research,” said Clive Grannum, President, Materion Performance Materials. “We have supplied materials for many NASA programs starting with the first Mercury capsule, the space shuttle and James Webb Space Telescope to name just a few. We’re committed to engineering innovative materials systems that meet property requirements used in challenging operating environments for space as well as the aerospace, automotive, semiconductor, and defense markets.”

"We are excited to explore the use of AyontEX™ for advancing space optics," said Chase Wortman, President of Outpost Technologies, Inc. "Our team is dedicated to developing industry-defining solutions that set new standards while meeting the rigorous demands of space missions. We look forward to collaborating closely with NASA and Materion to ensure the success of this project."

As technologies become more complex, they require highly specialized materials that deliver specific properties, often in weight- and/or size-restricted applications. Materion's AyontEX alloys are manufactured using precision powder metallurgy to ensure refined grain structure and enhanced mechanical properties.

About Materion

Materion Corporation is a global leader in advanced materials solutions for high-performance industries including semiconductor, industrial, aerospace & defense, energy and automotive. With nearly 100 years of expertise in specialty engineered alloy systems, inorganic chemicals and powders, precious and non-precious metals, beryllium and beryllium composites, and precision filters and optical coatings, Materion partners with customers to enable breakthrough solutions that move the world forward. Headquartered in Mayfield Heights, Ohio, the company employs more than 3,400 talented people worldwide, serving customers in more than 60 countries.

About Outpost Technologies

Established in 2017 and headquartered in Huntsville, AL, Outpost Technologies, Inc. specializes in delivering vertically integrated solutions across the Defense and Space industries, encompassing the full program lifecycle from requirements definition to system deployment. With a commitment to relentless innovation and upholding the highest quality standards, Outpost ensures tailored solutions consistently achieve exceptional performance meeting the unique needs of diverse customers.

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